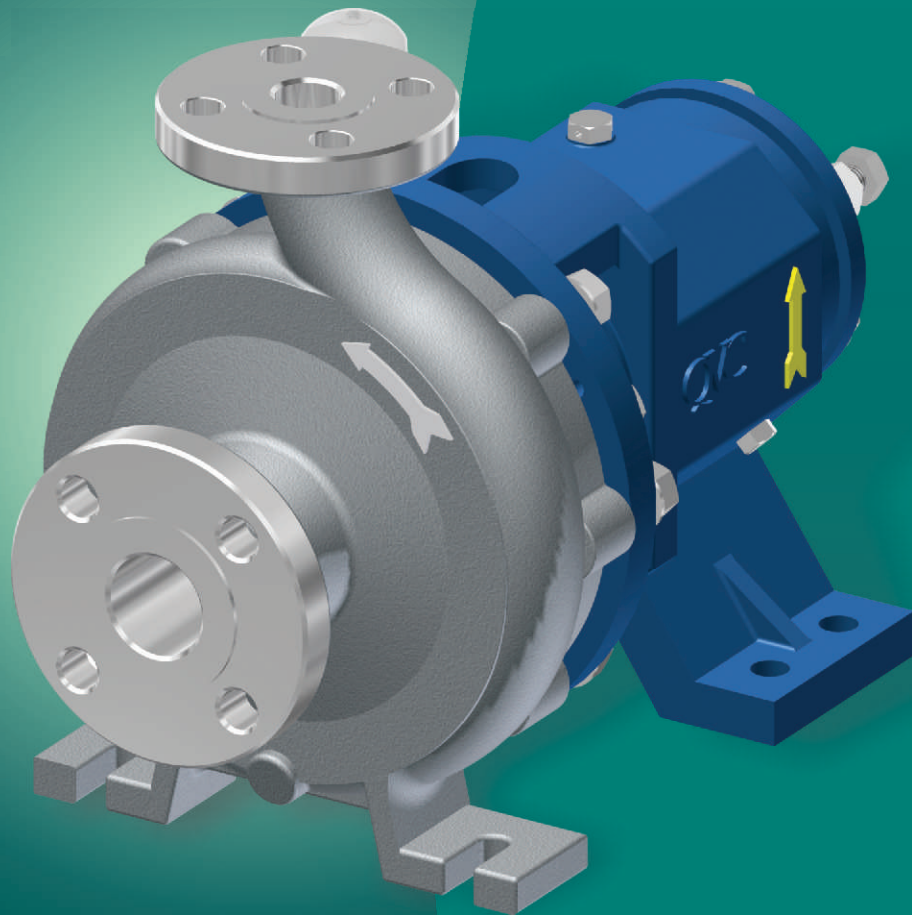


# Investment Cast Centrifugal Process Pump

(ANSI B73.1M)



## Available in

WCB (CAST STEEL), CF8M (S.S. 316),  
CF3M (S.S. 316L), CN7M (ALLOY-20),  
CD4MCu, HASTALLOY-B & C

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Quality

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Value

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Commitment

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# Investment Cast Centrifugal Process Pump

## FEATURES :

1. All the wetted parts are made from investment castings giving excellent surface finish, sound casting, better efficiency.
2. Maximum interchangeability therefore minimum spare parts inventory required to be maintained.
3. Back pull out design permits quick inspection, repairs of rotary assembly without disturbing pipe line and motor connections.
4. Hydraulic performance maintained by simple external axial adjustment of impeller wear.
5. Exclusive balanced thrust.
6. Standard dimensions cuts layout cost.
7. Standard foundations save installation and drawing time, talent and money.
8. Fully open impeller for various fluid transfer ranging from clear to suspended solids.

## APPLICATION:

### Chemical :

Caustic transfer, Acid unloading, Monomer and polymer transfer, Molten sulphur and urea, Liquid ammonia Liquid Nitrogen.

### Petrochemical :

Aromatics, Low specific gravity hydrocarbons, Gas oil.

### Pulp and paper :

Digester make up-green and white liquor and black liquor recovery, coating slurries, clay, Titanium dioxide and Alum transfer.

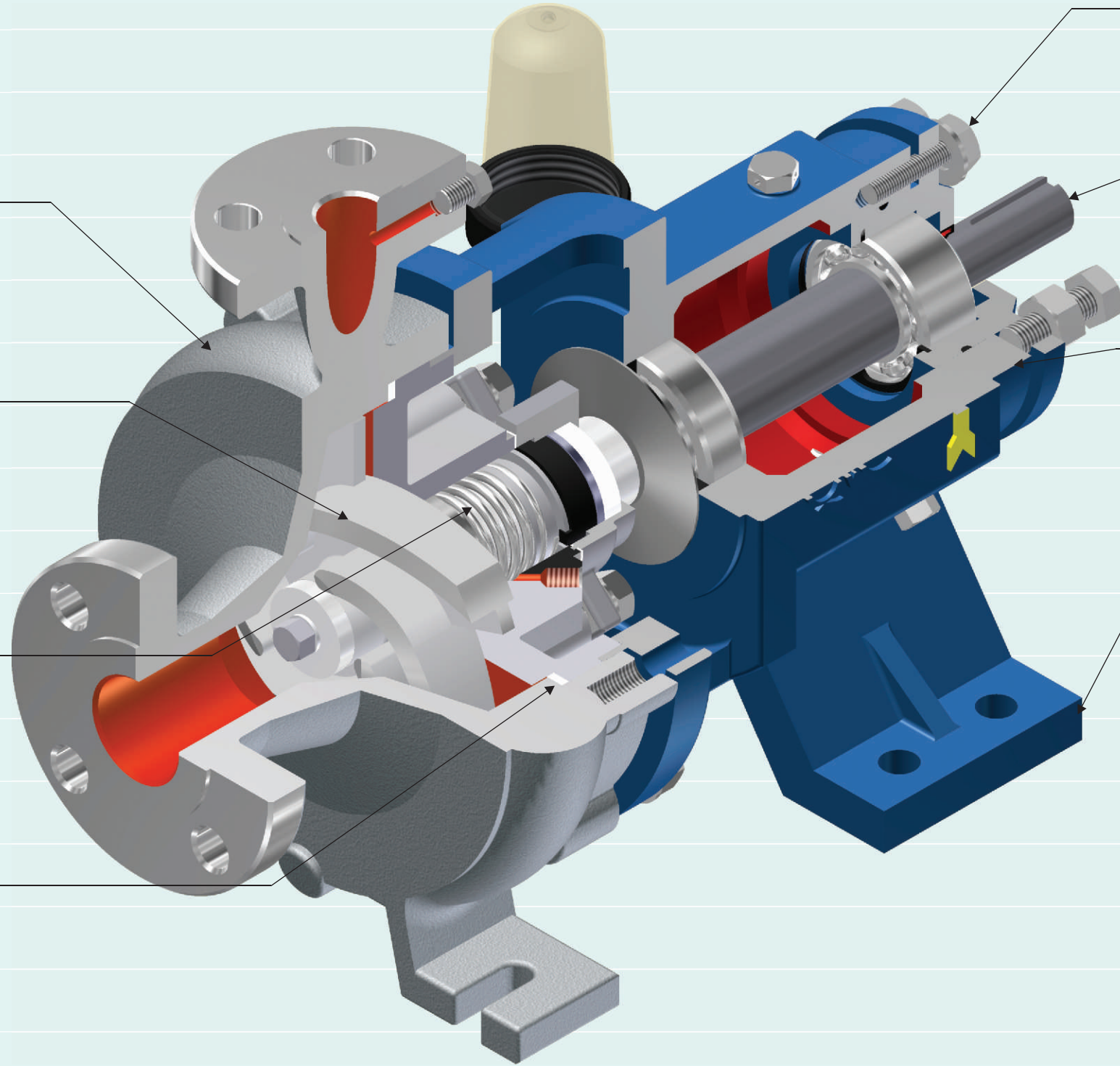
### Steel and Mill industry :

Waste acid recovery, Scrubber service, Pickle, liquor circulation.

### General :

Textile, Food, Pharmaceutical and Pollution control chilled water, condensate return, Acid recovery, Stack scrubbers, Filter feed DM water Plant.

# Investment Cast Centrifugal Process Pump



## CASING

- Top centerline discharge for air handling, Self-venting.
- Back pullout design for ease of maintenance.
- Integral casing feet prevent pipe load miss-alignment longer seal and bearing life.
- Standard class 150 RF serrated flanges for positive sealing.

## IMPELLER

- Fully opened impeller.
- Best for handling solids, stringy materials and abrasive, corrosives.
- Back pump-out vanes reduce radial thrust loads and seal chamber pressure.

## SEALING FLEXIBILITY

- Wide range of sealing arrangements available to meet different service conditions.
- Single, Double Unbalanced, Balanced seals can be fitted in the same stuffing box.

## POSITIVE SEALING

- Fully confined gasket at casing joint protects alignment liquid makes easier disassembly.

## CONTINUOUS PERFORMANCE

- Original flow, pressure and efficiency are maintained by simple external adjustment resulting in long term energy and repair saving.

## SHAFT & BEARINGS

- Heavy-duty shaft designed for minimum deflection at seal faces-less than 0.05mm.

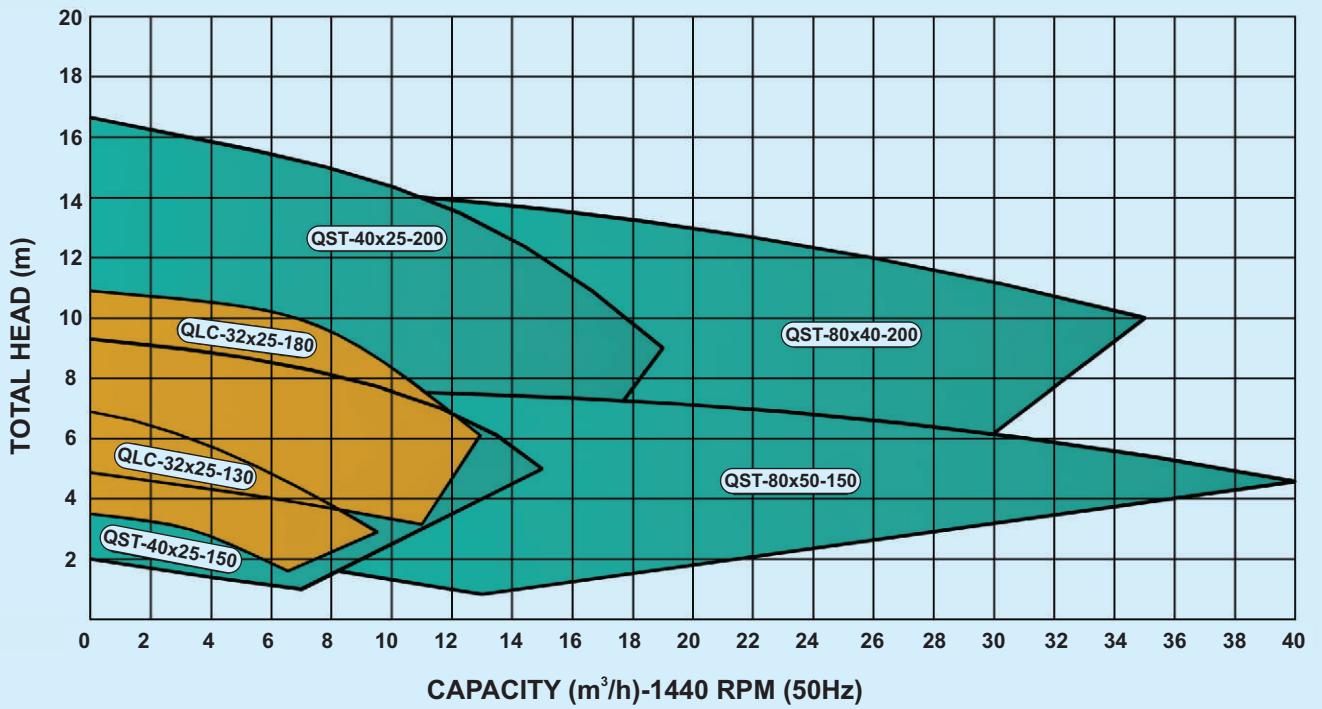
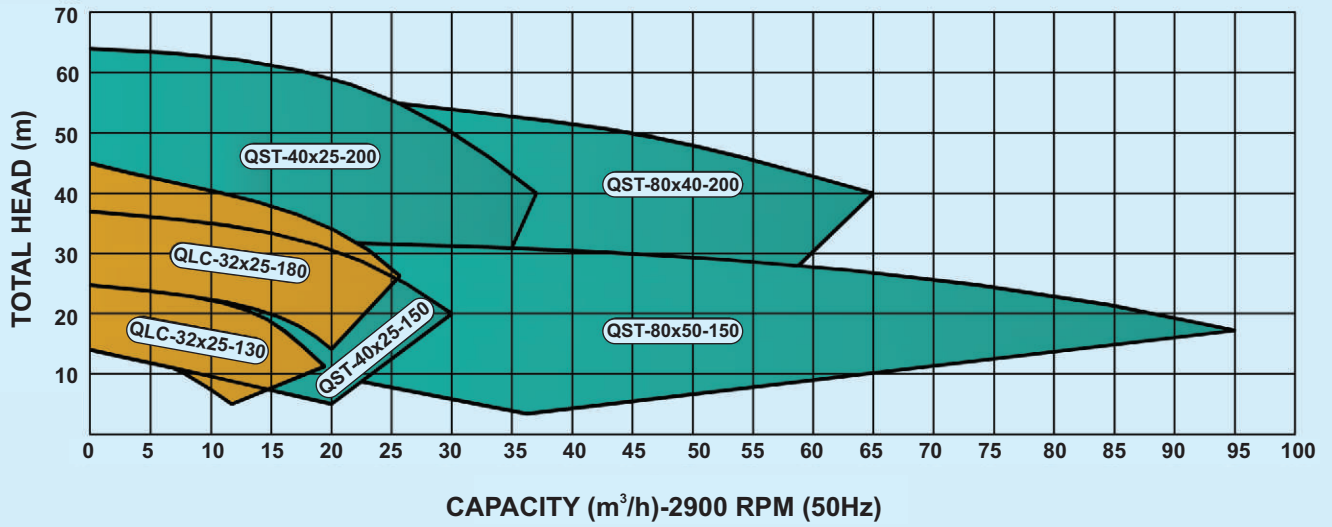
## BEARING FRAME

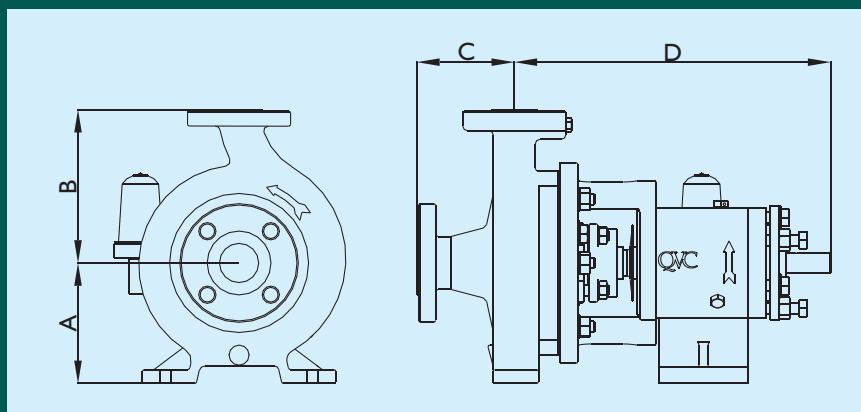
- Heavy duty design reduce the loads on shaft.

## BEARING FRAME FOOT

- Reduce effects of pipe loads on shaft alignment ; pump vibration reduced.

# PUMP SELECTION GUIDE





## DIMENSIONS

SERIES	PUMP SIZE	ANSI DESIGNATION	SUCTION SIZE	DELIVERY SIZE	A	B	C	D	FLANGE DRILLING AS PER ANSI-B16.5 RF					
									SUCTION			DELIVERY		
									PCD	HOLE SIZE	NO.	PCD	HOLE SIZE	NO.
QLC	32 x 25 x 130	NOT AN	32	25	100	125	75	315	85	16	4	79.4	16	4
	32 x 25 x 180	ANSI VERSION	32	25	132	145			85	16		79.4	16	
QSM	40 x 25 x 154	AA	40	25	132	165	102	343	98.4	16		79.4	16	
	80 x 50 x 154		80	50					152.4	19		120.6	19	
	40 x 25 x 205	AA	40	25					98.4	16	79.4	16		
	80 x 40 x 205	AB	80	40					152.4	19	98.4	19		

## CONSTRUCTION DETAILS

		QLC	QST
SHAFT	DIAMETER AT IMPELLER	18 mm	22 mm
	DIAMETER IN STUFFING BOX		
	(LESS SLEEVE)	22.2 mm	1.125"(28.56 mm)
	(WITH SLEEVE)	1.125"(28.56 mm)	1.375" (34.925 mm)
	DIAMETER BETWEEN BEARING	30 mm	34 mm
	DIAMETER AT COUPLING	22 mm	22 mm
SLEEVE	O.D THRU STUFFING BOX	1.125"(28.56 mm)	1.375" (34.925 mm)
BEARINGS	RADIAL	6305	6306
	THRUST	3305	3305
	BEARING SPAN	96 mm	115 mm
STUFFING BOX	BORE	48.6 mm	55 mm
TEMPERATURE	MAXIMUM LIQUID TEMP.		
	WITHOUT COOLING	175 Degree Centigrade	
	WITH COOLING OPTION	260 Degree Centigrade	
CASING	CASING CORROSION ALLOWANCE	2 mm	3 mm

Manufactured by:

**QVC Chemical Equipments**

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**Local Distributor:**